WALLVIEW HD-18 DVI/HDMI

With Quick-Connect™ DVI/HDMI - SR with HSDS™ and the CONCEAL Wall Mounting System for the Vaddio™ HD-18 Robotic Pan/Tilt/Zoom Camera

Quick-Connect DVI/HDMI - SR Interface Used in the Following Packages
998-1105-018: Quick-Connect DVI/HDMI - SR Interface (Interface Box Only - Without Peripherals)

998-6906-000: Quick-Connect DVI/HDMI - SR Interface Kit - North America - (Camera Not Included)
998-6906-001: Quick-Connect DVI/HDMI - SR Interface Kit - International - (Camera Not Included)

999-6906-000: WallVIEW DVI/HDMI and HD-18 System - North America - Black Camera
999-6906-000W: WallVIEW DVI/HDMI and HD-18 System - North America - White Camera

999-6906-001: WallVIEW DVI/HDMI and HD-18 System - International - Black Camera
999-6906-001W: WallVIEW DVI/HDMI and HD-18 System - International - White Camera

©2012 Vaddio - All Rights Reserved. WallVIEW HD-18 DVI/HDMI, Document Number 342-0045 Rev. C

Touchboards

205 Westwood Ave, Long Branch, NJ 07740
Phone: 866-94 BOARDS (26273) / (732)-222-1511
Fax: (732)-222-7088 | E-mail: sales@touchboards.com

Quick-Connect DVI/HDMI - SR Interface Overview:

The Vaddio Quick-Connect DVI/HDMI - SR Interface was designed and built specifically to advance the Vaddio HD-18 camera into a wide variety of digital video and extended control applications.

Rear Panel of the Quick-Connect DVI/HDMI - SR Interface (1/2 Rack Width Enclosure)

Front Panel of the Quick-Connect DVI/HDMI - SR Interface (Optional Accessory Rack Mount Panel Available)

The Quick-Connect DVI/HDMI is a perfect complement to the Vaddio HD-18 because it takes advantage of the superb flexibility of the camera's video system and incorporates Vaddio's EZCamera™ cabling system using two (2) Cat 5e cables to transport Video, Power and Control, to and from the camera and interface. Simply put, these products were designed and manufactured as a pair from the beginning.

The active electronics built-in both the HD-18 and the Quick-Connect DVI/HDMI deliver high definition video using high speed differential signaling (HSDS) for the video and IR signals. HSDS is at the core of Vaddio's Category 5 cabling systems and provides high definition video capability (up to 1080p/60) with superior video quality over cabling distances up to 100' (30.48m).

The Quick-Connect DVI/HDMI has many new features including simultaneous analog component video (YPbPr) and digital video outputs (DVI-D or HDMI with the HDMI adapter cable option) on separate connectors which is ideal for multiple monitoring and large projection systems. Extended control functions include Daisy Chain Control Emulation (DCCE™) which allows single control port codecs to control multiple HD-18 cameras, and IR forwarding in modulated and non-modulated formats for extending the reach of the IR remotes included with today's most popular videoconferencing systems.

Intended Use:

Before operating the system, please read the entire manual thoroughly. The system was designed, built and tested for use indoors, and with the provided power supply. The use of a power supply other than the one provided or outdoor operation has not been tested and could damage the camera and/or create a potentially unsafe operating condition.

Important Safeguards:

Read and understand all instructions before using. Do not operate any device if it has been dropped or damaged. In this case, a Vaddio technician must examine the product before operating. To reduce the risk of electric shock, do not immerse in water or other liquids and avoid extremely humid conditions.

Use only the power supply provided with the system. Use of any unauthorized power supply will void any and all warranties.

Please do not use "pass-thru" type RJ-45 connectors. These pass-thru type connectors do not work well for professional installations and can be the cause of intermittent connections which can result in the RS-232 control line failing and locking up, and/or compromising the HSDS™ signals. For best results please use standard RJ-45 connectors and test all cables for proper pin-outs prior to use and connection to Vaddio product.

Save These Instructions:

The information contained in this manual will help you install and operate your system. If these instructions are misplaced, Vaddio keeps copies of Specifications, Installation and User Guides and most pertinent product drawings for the Vaddio product line on the Vaddio website. These documents can be downloaded from www.vaddio.com free of charge.

UNPACKING:

System Configurations - Bill of Materials:

Because the Quick-Connect DVI/HDMI - SR Interface is available in several packages, please review the bill of materials upon receipt to ensure that all the parts are present and accounted for. The ferrite cylinders may come in handy when this product is used in a large rack full of equipment in order to eliminate any possible interference with other audio/video products. The ferrite cylinders are included for the integrator's convenience.

Quick-Connect DVI-D/HDMI – SR Interface Only
Part Number 998-1105-018

- One (1) Quick-Connect DVI/HDMI Interface Box only
- One (1) User Manual (Document Number 342-0045)

Quick-Connect DVI-D/HDMI - SR Interface Kit for the HD-18 PTZ Camera - North America
Part Number 998-6906-000 (Camera Not Included)

- One (1) Quick-Connect DVI/HDMI Interface Box
- One (1) 24VDC, 2A Switching Power Supply with AC Cord Set for North America
- User Manual (Document Number 342-0045)
- One (1) Laird Technologies 28A2432-0A2 Clamp-on Ferrite Cylinder (Wrap IR forwarding LED wires twice before screwing stripped wire ends to 3 conductor Molex Euro Jack)
- Two (2) Laird Technologies 28A0640-0A2 Clamp-on Ferrite Cylinder (Clamp around 0.8" diameter shielded DVI Cable at the Quick-Connect DVI end)
- One (1) Laird Technologies HFA163090-0A2 Clamp-on Ferrite Cylinder (Clamp around 0.8" diameter shielded DVI Cable at the Monitor end).

Quick-Connect DVI-D/HDMI - SR Interface Kit for the HD-18 PTZ Camera - International
Part Number 998-6906-001 (Camera Not Included)

- One (1) Quick-Connect DVI/HDMI Interface Box
- One (1) 24VDC, 2Amp Switching Power Supply
- One (1) AC Cord Set for Euro and One (1) AC Cord Set for UK
- User Manual (Document Number 342-0045)
- One (1) Laird Technologies 28A2432-0A2 Clamp-on Ferrite Cylinder (Wrap IR forwarding LED wires twice before screwing stripped wire ends to 3 conductor Molex Euro Jack)
- Two (2) Laird Technologies 28A0640-0A2 Clamp-on Ferrite Cylinder (Clamp around 0.8" diameter shielded DVI Cable at the Quick-Connect DVI end)
- One (1) Laird Technologies HFA163090-0A2 Clamp-on Ferrite Cylinder (Clamp around 0.8" diameter shielded DVI Cable at the Monitor end).

WallVIEW DVI/HDMI HD-18 System,
Part Number 999-6906-000 North America - Black Camera Kit
Part Number 999-6906-000W North America - White Camera Kit

- One (1) HD-18 PTZ Camera 999-6900-000 (Black) or 999-6900-000W (White)
- One (1) Quick-Connect DVI/HDMI Interface Box
- One (1) 24VDC, 2A Switching Power Supply with AC Cord Set for North America
- One (1) Laird Technologies 28A2432-0A2 Clamp-on Ferrite Cylinder (Wrap IR forwarding LED wires twice before screwing stripped wire ends to 3 conductor Molex Euro Jack)
- Two (2) Laird Technologies 28A0640-0A2 Clamp-on Ferrite Cylinder (Clamp around 0.8" diameter shielded DVI Cable at the Quick-Connect DVI end)
- One (1) Laird Technologies HFA163090-0A2 Clamp-on Ferrite Cylinder (Clamp around 0.8" diameter shielded DVI Cable at the Monitor end).
- One (1) 535-2100-100 (Black) or 535-2100-200W (White) CONCEAL Wall Mounting System and Mounting Hardware
- One (1) 998-1001-232 Control Adapter (for control systems)
- One (1) 998-1002-232 Control Adapter (for TANDBERG VC systems)
- One (1) 3-pos Phoenix type connector
- User Manual - Document Number 342-0045

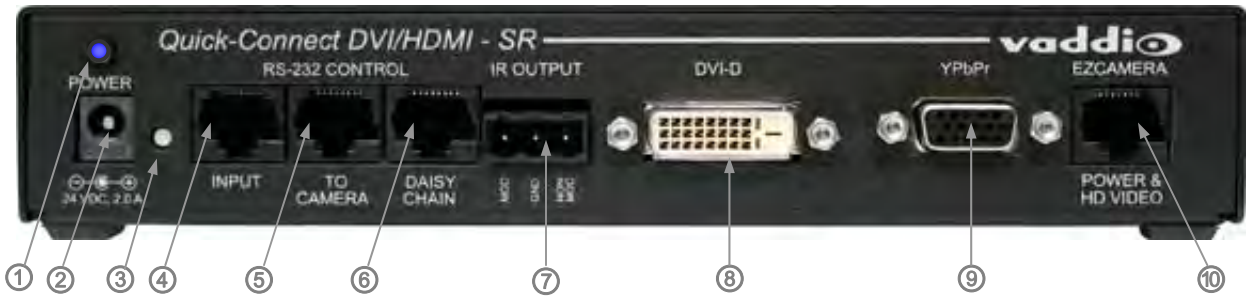
©2011 Vaddio - All Rights Reserved.

Unpacking System Configurations *(continued)*

WallVIEW DVI/HDMI HD-18 System,
Part Number 999-6906-001 International - Black Camera Kit
Part Number 999-6906-001W International - White Camera Kit

- One (1) HD-18 PTZ Camera 999-6900-001 (Black) or 999-6900-001W (White)
- One (1) Quick-Connect DVI/HDMI Interface Box
- One (1) 24VDC, 2Amp Switching Power
- One (1) AC Cord Set for Euro and One (1) AC Cord Set for UK
- One (1) Laird Technologies 28A2432-0A2 Clamp-on Ferrite Cylinder (Wrap IR forwarding LED wires twice before screwing stripped wire ends to 3 conductor Molex Euro Jack)
- Two (2) Laird Technologies 28A0640-0A2 Clamp-on Ferrite Cylinder (Clamp around 0.8" diameter shielded DVI Cable at the Quick-Connect DVI end)
- One (1) Laird Technologies HFA163090-0A2 Clamp-on Ferrite Cylinder (Clamp around 0.8" diameter shielded DVI Cable at the Monitor end).
- One (1) 535-2100-100 (Black) or 535-2100-200W (White) CONCEAL Wall Mounting System and Mounting Hardware
- One (1) 998-1001-232 Control Adapter (for control systems)
- One (1) 998-1002-232 Control Adapter (for TANDBERG VC systems)
- One (1) 3-pos Phoenix type connector
- User Manual - Document Number 342-0045

Quick-Connect DVI/HDMI - SR Interface I/O Description



1) **Blue LED Power Indicator.**
2) **24 VDC Power Port:** Coax Power Connector, 5.5mm OD x 2.5mm ID, Positive Center.
3) **Recessed Color Space Conversion Switch:** Toggles between HDMI YCbCr and sRGB (RGBHV) color space. Change the color space to accommodate either YCbCr or RGBHV monitors.
4) **RS-232 Control Input** (from joystick controller, codec or control system).
5) **To Camera:** RS-232 Control to & from Camera and IR signals returned from the camera.
6) **Daisy Chain Control Port:** Daisy Chain Control Emulation (DCCE) output to next Quick-Connect DVI/HDMI SR Interface (does not function with the AutoTrak System).
7) **IR Output Port:** Non-modulated (for hard connections) and Modulated for use with IR emitters.
8) **DVI-D Output:** High Definition Multimedia Interface (HDMI) Transmitter, HDMI (v 1.3 with deep color) and DVI v 1.0 Compliant - use Recessed Color Space Conversion Switch to toggle between HDMI YCbCr and sRGB (RGBHV) color spaces to suit your monitors
9) **YPbPr Output:** Analog Component Video Output on DE-15F (HD-15F) Connector, Resolutions up to 1080p/60 with monitor support.
10) **EZCamera Power & HD Video Port:** Supplies power to camera and returns HD video from the camera via Cat-5e. Maximum distance on the CAT-5e cable is 100' (30.5 m).

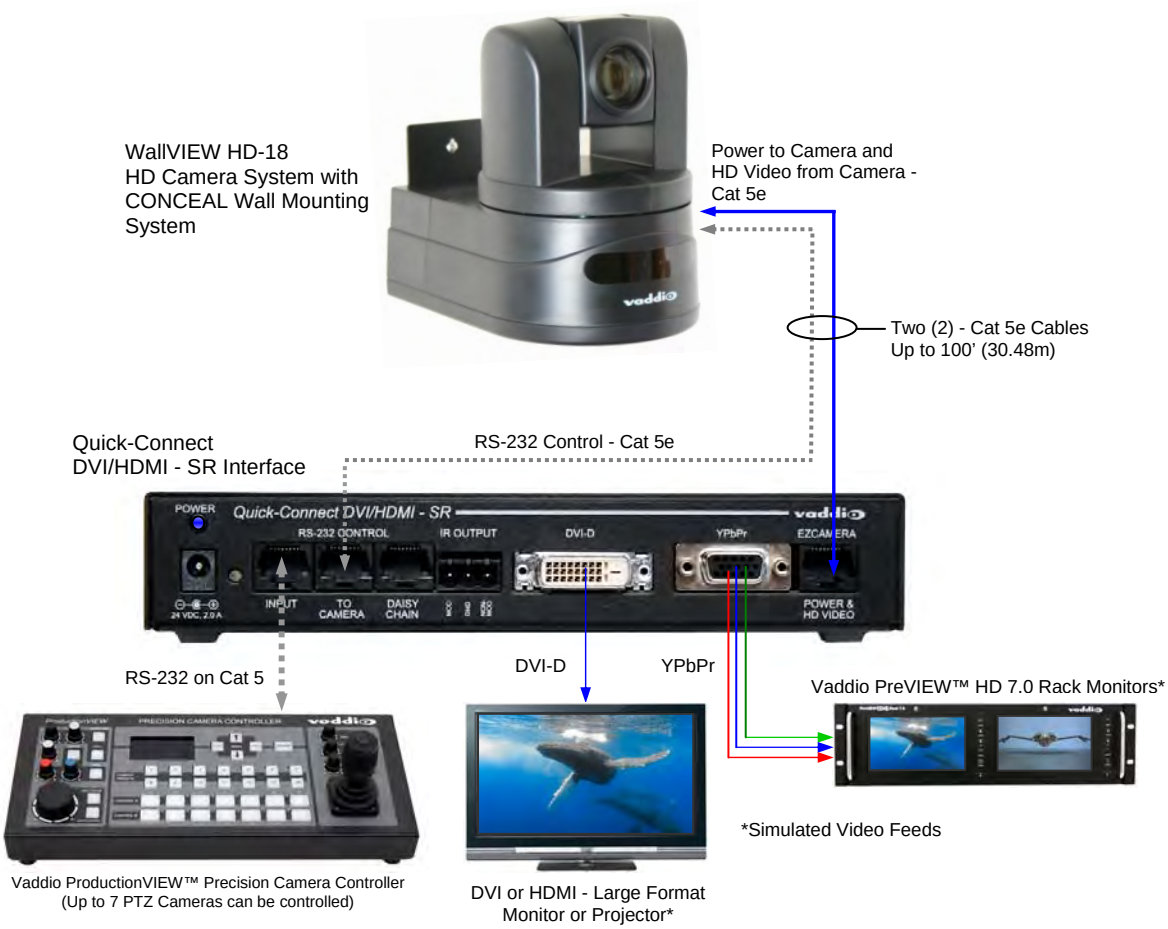
©2011 Vaddio - All Rights Reserved.

Quick-Connect DVI/HDMI - SR Interface Key Features:

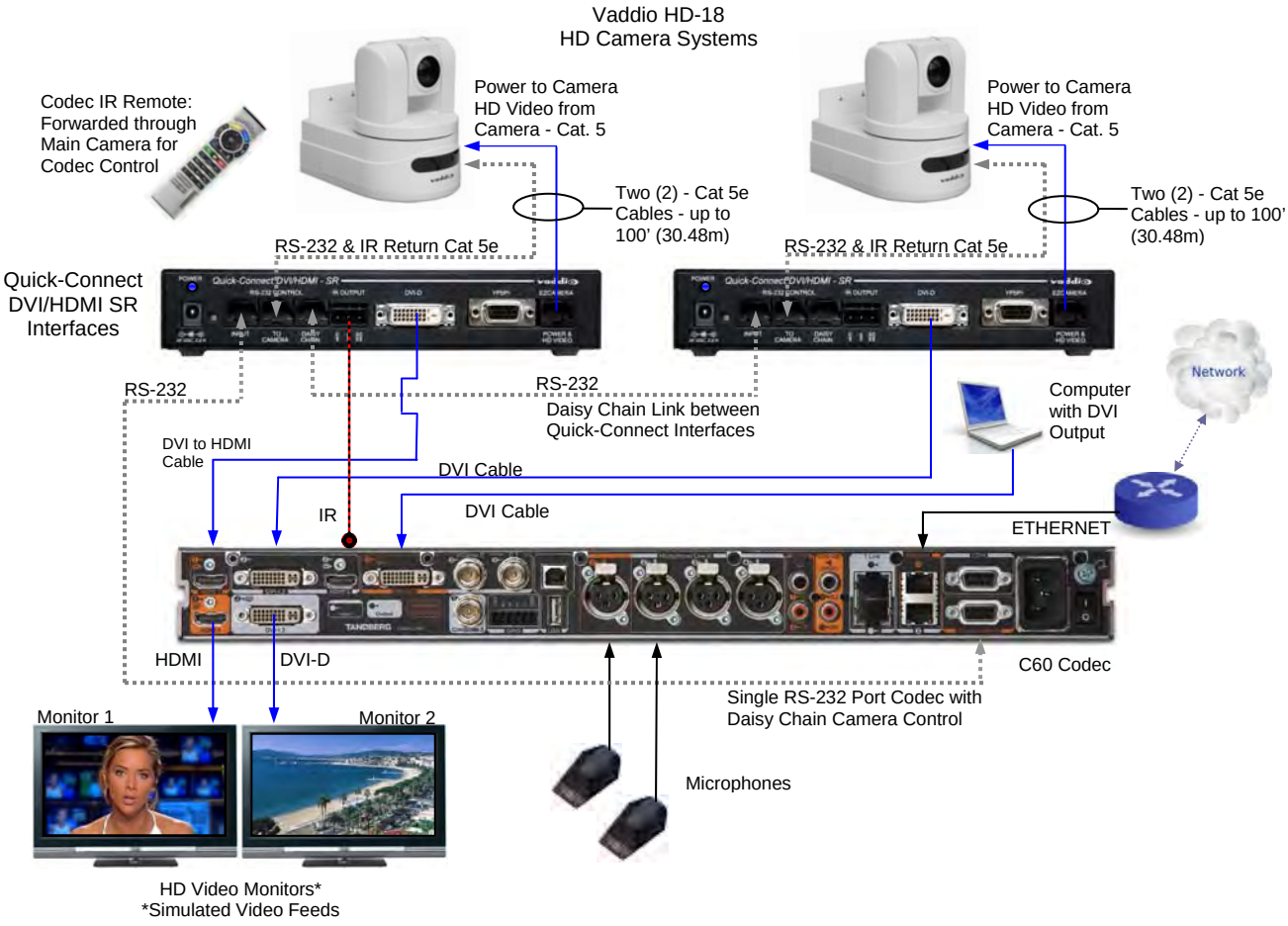
- **Integrated Design for use with the HD-18:** The Quick-Connect DVI/HDMI and the HD-18 both use high speed differential signaling (HSDS) for transmission of high definition video (up to 1080p)/60 and IR signals over Category 5 cabling. Video, Power and Control is conveyed using only two Category 5 cables.
- **Simultaneous Analog and Digital Outputs**: The Quick-Connect DVI/HDMI is equipped with both Analog (YPbPr) and Digital video outputs (DVI-D or HDMI with optional DVI-D to HDMI adapter cable) to allow the flexibility in system design demanded by today's best integrators.
- **Daisy Chain Control Emulation - DCCE:** The Quick-Connect DVI/HDMI provides for daisy chain type control wiring, where all the wiring is done at the interface, which is perfect for use with single control port video systems.
- **IR Forwarding Feature:** The IR Forwarding feature allows IR signals from Polycom® and TANDBERG® remotes to be sent through the HD-18 to the codec's IR interface or IR window allowing for camera placement and system design freedom.
- **No Scaler On-Board:** The Quick-Connect DVI/HDMI - SR Interface does not have an internal scaler and will not interfere with the video signal coming out of the camera. Resolutions are set at the camera and the Quick-Connect DVI/HDMI passes through that resolution**.**
- **Designed and Manufactured in the USA:** Made in the greater Minneapolis/St. Paul metropolitan area, New Hope, Minnesota, USA.

System Connectivity Example 1:

Basic system connectivity of a Vaddio WallVIEW™ HD-18 and Quick-Connect DVI/HDMI - SR Interface with Vaddio ProductionVIEW™ Precision Camera Controller and Monitors



System Connectivity Example 2: System connectivity of Vaddio HD-18 Cameras and Quick-Connect DVI/HDMI - SR Interfaces Configured with Single Control Port Codec with Daisy Chain Control Emulation (DCCE).



General Installation Instructions:
Like all Vaddio Cat 5e cabling systems, the Quick-Connect DVI/HDMI - SR is easy to install and operate. The HD-18 product was specifically designed with Cat 5 cable connectivity for Power, Video and Control/IR signaling and only two Cat 5 cables are required from the Quick-Connect camera. Installation is simplified in that no custom 8-Pin mini-din cables or expensive multi-core plenum cables are needed and no power outlets are required near the camera bracket. All cabling is routed to the head-end using Cat 5 cables.

Before Installing

- Locate the camera mounting location paying close attention to camera viewing angles, lighting conditions, possible line of site obstructions, and checking for in-wall obstructions where the camera is to be mounted. Pick a mounting location to optimize the performance of the camera.
- Pre-wire all cabling as required (see the System Connectivity Examples).
- The CONCEAL Wall Mounting System for the WallVIEW CCU HD-18 can be mounted directly to a 2-gang wall box or can be mounted to the drywall using the supplied four (4) drywall anchors.

Touchboards
205 Westwood Ave, Long Branch, NJ 07740
Phone: 866-94 BOARDS (26273) / (732)-222-1511
Fax: (732)-222-7088 | E-mail: sales@touchboards.com

Mounting and Installation Instructions for the CONCEAL Wall Mounting System:

Step 1: Determine Camera Mount Location
Note: When locating the camera, consider viewing angles, lighting conditions, possible line of site obstructions and check for in-wall obstructions where the camera is to be mounted. Pick a mounting location to optimize the performance of the camera.

The 2 (two) Cat-5e cables should feed-through a 1" (25.4mm) opening (circular or square shape) centered in the rectangular slot located on the rear flange of the CONCEAL Wall Mount Bracket (see Fig. 1).

Note: Do not cut out the entire rectangular slot opening in the wall! This will not allow the two (2) lower wall anchors to correctly fasten the Conceal Wall Mount to the wall.

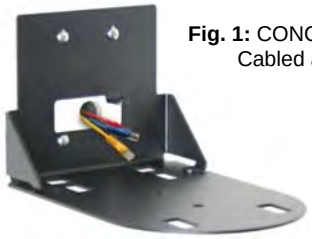


Fig. 1: CONCEAL Wall Mount Bracket: Cabled and Attached to Wall

If the bracket is to be mounted on a 2-gang wall box, use the screws supplied with the wall box cover plate to attach the CONCEAL Wall Mount Bracket.

If mounting to drywall with wall anchors, use the four (4) quality wall anchors/screws provided (see Fig. 1). Note: The mounting holes are slotted and are 90° opposing to provide easy leveling. Level the mount and tighten the mounting screws.

Step 2: System Connectivity:

1) Use the accompanying HD-18 manual to set the switch settings for HD video out resolution, IR frequency and output, baud rate, SD video format and shape, image orientation etc…
2) See "Connectivity Example 1" on page 6**.** This is the basic two (2) Cat. 5e cable system where Power is sent to the camera and HD Video is returned from the camera on one Cat. 5e (blue line) and RS-232 control communication and IR feed-through is returned from the camera (dashed grey line):
    a. Connect the first Cat 5e cable from the EZCAMERA POWER & HD VIDEO RJ-45 jack on the Quick-Connect to the EZ POWER VIDEO RJ-45 jack on the back of the camera
    b. Connect the 2nd Cat 5e cable from the RS-232 CONTROL "TO CAMERA" port to the RS-232 IN/IR OUT jack on the back of the HD-18 camera. Connect the control source (i.e. Vaddio's Precision Camera Controller, ProductionVIEW HD, ControlVIEW™ XHD, AutoPresenter™ etc…) to the RS-232 CONTROL INPUT.
    c. Connect the DVI-D output to a DVI-D video device (or HDMI with a DVI-D to HDMI adapter cable - sold separately) and/or connect the YPbPr output to a different video destination device. Both the DVI-D and the YPbPr are live images at the same resolution which is set at the camera. The only difference is that the DVI-D signal is digital and the YPbPr is analog. Both are capable of 1080p/60Hz.
    d. Check all Cat 5e cables for proper connection and check the cables for continuity in advance of final connection. ***Please do not use the "feed-thru" or "EZ" type RJ-45 connectors for professional installations (see page 3 for Important Safeguards).***

Note: Plugging the EZCAMERA POWER & HD VIDEO Cat 5e cable into the wrong RJ-45 may cause damage to the camera system and void the warranty.

©2011 Vaddio - All Rights Reserved.

Step 3: SECURE THE CAMERA TO THE CONCEAL WALL MOUNT BRACKET:
After all cables are attached to the camera, place the camera onto the camera mount and insert the two-(1/4"-20) screws into the camera through the two-screw holes in the bottom of the mount.
Note: Be sure to align each side of the camera evenly to all sides of the CONCEAL Wall Mount Bracket before final tightening of the mounting screws (see Fig. 2).

Fig. 2: Vaddio HD-18 Camera aligned and attached to the CONCEAL Wall Mount Bracket

Step 4: INSTALL THE CONCEAL LOWER COVER PLATE:
Attach lower CONCEAL Lower Cover Plate (see Fig. 3). Slide lower cover plate from front of the mounting bracket toward the rear of the bracket. The two-rear locking tabs will need to be guided into position first and will lock in place as the lower cover plate is pushed toward the rear of the mounting bracket and the front tabs are inserted (see Fig. 4).

Fig. 3: CONCEAL Lower Cover Plate with Locking Tabs

Fig. 4: CONCEAL Lower Cover Plate locked in place

Step 5: CONNECT POWER AND TEST:
Connect the 24VDC, 2A power supply to the Quick-Connect and plug it into the wall once all the connections have been checked. The camera will "HOME" to a centered position. To ensure proper continuity of control and operation of the cameras, the RS-232 controller (control system, codec or joystick) should be powered ON after all of the cameras.

Note: Plugging the EZCAMERA POWER & HD VIDEO Cat 5e cable into the wrong RJ-45 may cause damage to the camera system and void the warranty.

Step 6: INSTALL THE CONCEAL REAR CAMERA COVER:
After successful testing of the camera, install the Conceal Rear Camera Cover on the CONCEAL Mounting Bracket with the supplied screw (see Fig. 5 and 6).

Fig. 5: CONCEAL Rear Camera Cover

Fig. 6: Completed CONCEAL Wall Mount Camera Bracket Installation

©2011 Vaddio - All Rights Reserved.

RS-232 Cabling
For RS-232, use a standard CAT-5 cable (568B termination for RJ-45 connectors) from the RS-232 port on the back of a Vaddio ProductionVIEW camera controller or switcher. If the camera will be connected to a third-party control system (such as AMX® or Crestron®), a DB-9 to RJ-45 adapter cable is supplied with the camera for RS-232.

Videoconference Codecs and RS-232
Depending on the codec that is used, and which RS-232 port is used with a codec, special DB-9 to RJ-45 adapters may sometimes be required. Refer to Vaddio's price list or website for Tech Notes on the HD-18 page on specific diagrams for wiring the camera to videoconference codecs.
Remember to always power up the cameras before booting up the codec.

Daisy Chain Configurations/Installation Instructions: In some cases, Daisy Chain control situations can't be avoided. Because of this, Vaddio added "Daisy Chain Control Emulation" or DCCE™ to the Quick-Connect DVI/HDMI - SR Interface in order to use the HD-18 camera in these situations. See Connectivity Example 2 (previous page) where the codec requires daisy chain control wiring.

1) For Daisy Chain control, first complete steps 1 through 3-d, since all the cabling between the cameras and the Quick-Connect is the same.
2) Instead of running a cable from the 1st camera to the 2nd camera, run a Cat 5e patch cable from the 1st Quick-Connect interface RS-232 CONTROL DAISY CHAIN RJ-45 jack to the 2nd Quick-Connect RS-232 CONTROL INPUT jack. Within the VISCA® like protocol that the codec and the HD-18's use, the 1st in the chain will set up as Camera #1 and the second will set up as Camera #2 in the chain allowing the codec IR Remote to Select which camera it will switch to and which to control.
    a. In the case of TANDBERG Codecs, the IR Modulated Output of the Quick-Connect and a Xantech IR emitter (282D or 283D) attached to the front panel of the codec (in front of the IR receiver).
    b. Polycom Codecs with IR receivers can connect the IR Feed Through the same way as the TANDBERG, but do not use daisy control. Several Polycom codecs can also be connected directly with the non-modulated signal to the codec's IR signal input port.

Compliance and CE Declaration of Conformity - ClearVIEW HD-19

Compliance testing was performed to the following regulations:

- **FCC Part 15, Subpart B** Class A
- **ICES-003, Issue 4: 2004** Class A
- **EN 55022 A: 2006 + A1: 2007(CISPR 22:2005/A1:2005)** Class A
- **AS/NZS CISPR 22: 2009 + A1: 2010** Class A
- **VCCI V-3/2010.04** Class A
- **EMC Directive 2004/108/EC** Class A

FCC Part 15 Compliance

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15, Subpart B, of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.

Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference including interference that may cause undesired operation of the device.
Changes or modifications not expressly approved by Vaddio can affect emission compliance and could void the user's authority to operate this equipment.

ICES-003 Compliance

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.
Le présent appareil numérique n'emet pas de bruits radioélectriques dépassant les limites applicables aux appareils numeriques de la classe A préscrites dans le Règlement sur le brouillage radioélectrique édicte par le ministère des Communications du Canada.

European Compliance

This product has been evaluated for Electromagnetic Compatibility under the EMC Directive for Emissions and Immunity and meets the requirements for a Class A digital device. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Standard(s) To Which Conformity Is Declared:

EMC Directive 2004/108/EC

EN 55024: 1998 + Amendments A1: 2001 + A2: 2003	Immunity
• EN 61000-4-2: 1995 + Amendments A1: 1998 + A2: 2001	Electrostatic Discharge
• EN 61000-4-3: 2006 + A1: 2008	Radiated Immunity
• EN 61000-4-4: 2004 + Corrigendum 2006	Electrical Fast Transients
• EN 61000-4-5: 2006	Surge Immunity
• EN 61000-4-6: 2009	Conducted Immunity
• EN 61000-4-8: 2010	Power Frequency Magnetic Field
• EN 61000-4-11: Second Edition: 2004	Voltage Dips, Interrupts and Fluctuations

©2011 Vaddio - All Rights Reserved.

Compliance and CE Declaration of Conformity

FCC Part 15 Compliance

- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15, Subpart B, of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his/her own expense.
- Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference including interference that may cause undesired operation of the device.
- Changes or modifications not expressly approved by Vaddio can affect emission compliance and could void the user's authority to operate this equipment.

Industry Canada Industrie Canada

ICES-003 Compliance

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.
Le présent appareil numérique n'emet pas de bruits radioélectriques dépassant les limites applicables aux appareils numeriques de la classe A préscrites dans le Règlement sur le brouillage radioélectrique édicte par le ministère des Communications du Canada.

European Compliance

This product has been evaluated for Electromagnetic Compatibility under the EMC Directive for Emissions and Immunity and meets the requirements for a Class A digital device. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Standard(s) To Which Conformity Is Declared:

EMC Directive 2004/108/EC

EN 55022 A: 2006 + A1 2007 (CISPR 22:2005/A1:2005) Conducted and Radiated Emissions

EN 55024: 1998 + Amendments A1: 2001 + A2: 2003 - Electromagnetic Compatibility - Immunity

EN 61000-4-2 Electrostatic Discharge

EN 61000-4-3 Radiated Immunity

EN 61000-4-4 Electrical Fast Transients

EN 61000-4-5 Surge Immunity

EN 61000-4-6 Conducted Immunity

EN 61000-4-8 Power Frequency Magnetic Field

EN 61000-4-11 Voltage Dips, Interrupts and Fluctuations

Warranty Information:

Hardware* Warranty - One year limited warranty on all parts. Vaddio warrants this product against defects in materials and workmanship for a period of one year from the day of purchase from Vaddio. If Vaddio receives notice of such defects during the warranty period, they will, at their option, repair or replace products that prove to be defective.

Exclusions - The above warranty shall not apply to defects resulting from: improper or inadequate maintenance by the customer, customer applied software or interfacing, unauthorized modifications or misuse, operation outside the normal environmental specifications for the product, use of the incorrect power supply, improper extension of the power supply cable or improper site operation and maintenance.

Vaddio Customer service – Vaddio will test, repair, or replace the product or products without charge if the unit is under warranty and is found to be defective. If the product is out of warranty, Vaddio will test then repair the product or products. The cost of parts and labor charge will be estimated by a technician and confirmed by the customer prior to repair. All components must be returned for testing as a complete unit. Vaddio will not accept responsibility for shipment after it has left the premises.

Vaddio Technical support - Vaddio technicians will determine and discuss with the customer the criteria for repair costs and/or replacement. Vaddio Technical Support can be contacted through one of the following resources: e-mail support at support@vaddio.com or online at www.vaddio.com.

Return Material Authorization (RMA) number - Before returning a product for repair or replacement, request an RMA from Vaddio's technical support. Provide a technician with a return phone number, e-mail address, shipping address, and product serial numbers and describe the reason for repairs or returns as well as the date of purchase and proof of purchase. Include your assigned RMA number in all correspondence with Vaddio. Write your assigned RMA number on the outside of the box when returning the product.

Voided warranty – The warranty does not apply if the original serial number has been removed or if the product has been disassembled or damaged through misuse, accident, modifications, or unauthorized repair. Cutting the power supply cable on the secondary side (low voltage side) to extend the power to the device (camera or controller) voids the warranty for that device.

Shipping and handling - Vaddio will not pay for inbound shipping transportation or insurance charges or accept any responsibility for laws and ordinances from inbound transit. Vaddio will pay for outbound shipping, transportation, and insurance charges for all items under warranty but will not assume responsibility for loss and/or damage by the outbound freight carrier.
If the return shipment appears damaged, retain the original boxes and packing material for inspection by the carrier. Contact your carrier immediately.

Products not under warranty - Payment arrangements are required before outbound shipment for all out of warranty products.
*Vaddio manufactures its hardware products from parts and components that are new or equivalent to new in accordance with industry standard practices.

Other General Information:
Care and Cleaning
Do not attempt to take this product apart at any time. There are no user-serviceable components inside.

- Do not spill liquids or liquid type substances onto the device.
- Keep this device away from food or liquid.
- For smears or smudges on the devices, wipe with a clean, soft cloth.
- Do not use any abrasive chemicals at any time on any equipment.

Operating and Storage Conditions:
Do not store or operate the device under the following conditions:

- Temperatures above 40°C (104°F) or temperatures below 0°C (32°F)
- High humidity, condensing or wet environments
- In inclement weather
- Dusty environments or haystacks
- Dry environments with an excess of static discharge or outer space (typical)
- Under severe vibration

General Specifications:

Quick-Connect DVI/HDMI - SR Interface	
Part Numbers	**998-1105-018:** Quick-Connect DVI/HDMI - SR Interface (Interface Box Only) **998-6906-000:** Quick-Connect DVI/HDMI - SR Interface Kit - North America **998-6906-001:** Quick-Connect DVI/HDMI - SR Interface Kit - International (Kit Includes Quick-Connect DVI/HDMI - SR Interface, Power Supply, AC Cord Set, Control Adapter and Documentation) **999-6906-000:** WallVIEW DVI/HDMI HD-18 System - North America (black camera) **999-6906-000W:** WallVIEW DVI/HDMI HD-18 System - North America (white camera) **999-6906-001:** WallVIEW DVI/HDMI HD-18 System - International (black camera) **999-6906-001W:** WallVIEW DVI/HDMI HD-18 System - International (white camera) (System Includes: Vaddio HD-18 Camera, Quick-Connect DVI/HDMI - SR Interface, CONCEAL Wall Mounting System and Mounting Hardware, Power Supply, AC Cord Set, Control Adapter and Documentation)
Connectors	Power Connector: 5.5mm OD x 2.5mm ID RJ-45: Four (4) Control IN, Control OUT, Daisy Chain OUT, EZCamera Power Video Port IR: 3-Pin Phoenix type connector (Modulated, Non-modulated and GND) Video Outputs: DVI-D (Female - Single Link) or HDMI with adapter cable (using the Recessed Color Space Conversion Switch) , DE-15F (High Density D-Sub 15-Pin F) for HD YPbPr
Video Resolution	Up to 1080p/60 for DVI-D, HDMI and YPbPr (YPbPr w/monitor support), Resolution set at HD-18 Camera. The Recessed Color Space Conversion Switch enables the use of either HDMI YCbCr or DVI-D sRGB (RGBHV) color space for added flexibility.
Cat. 5 Cable Length	Video, Power and Control on two (2) Cat 5e Cables - Up to 100' (30.48m)
Power Supply	24 VDC, 2.0 Amp PowerRite (110-240V, 50/60Hz) Switching Power Supply with AC Cord Set
Dimensions	½-Rack Size, 1-RU Rack Mount - 1.72" H x 8" W x 6.751" D (4.369cm x 20.32cm x 17.15cm)
Weight	1.21 lbs. (0.548846804 kg)
Accessory Options	1-RU Rack Mount Panel for two (2) units (side by side): PN# 998-6000-003 1m (3.3') DVI-D Male to HDMI Male P/N: 440-5643-001 3m (10') DVI-D Male to HDMI Male P/N: 440-5643-003
Origin	Made in the USA in the Minneapolis/St. Paul Metropolitan Area, Minnesota

Touchboards
205 Westwood Ave, Long Branch, NJ 07740
Phone: 866-94 BOARDS (26273) / (732)-222-1511
Fax: (732)-222-7088 | E-mail: sales@touchboards.com

Inside Back Cover - Blank

9433 Science Center Drive, Minneapolis, MN 55428
Toll Free: 800-572-2011 ▪ Phone: 763-971-4400 ▪ FAX: 763-971-4464
www.vaddio.com

©2012 Vaddio - All Rights Reserved. Reproduction in whole or in part without written permission is prohibited. Specifications and pricing are subject to change without notice. Vaddio, Quick-Connect, DCCE, HSDS, ProductionVIEW, PreVIEW, AutoPresenter, ControlVIEW, ProductionVIEW, EZCamera and PowerRite are trademarks of Vaddio. All other trademarks are property of their respective owners. Document Number 342-0045 Rev. C